

**Table 2. Map Classifications of Marine Habitats and their Major Organisms in the Florida Keys**

Marine Habitats	Authors	Major Organisms
<b>Mangrove forest and peat</b> Mangrove Mangrove	Lidz et al., 1997a Marszalek, 1977 Multer, 1993	Red, black, and white mangroves with many attached organisms, such as oysters, barnacles, and anemones; habitat for many types of juvenile organisms such as crabs, shrimp, and small fish (e.g., snapper, snook, mullet) that later live in other habitats
<b>Tidal creek</b>	Lidz et al., 1997a	Habitat for organisms attached to mangrove roots; sea grasses on <i>Halimeda</i> sands; migratory routes for swimming marine organisms
<b>Carbonate sand on Pleistocene coral reef limestone</b> Carbonate sand on Pleistocene limestone Inshore hardbottom/limestone bedrock Rock bottom with restricted circulation Hardbottom	Lidz et al., 2006 Lidz et al., 1997a Marszalek, 1977 Enos, 1977 Multer, 1993; FMRI, 2000	Non-reef-forming stony corals, loggerhead sponges ( <i>Spheciospongia vesparia</i> ), gorgonians, and numerous green and brown algae dominate faunas; the coralline red alga <i>Neogoniolithon strictum</i> also important; alcyonarians and gorgonians common; turtle sea grass <i>Thalassia testudinum</i> sparse
<b>Bare Pleistocene coral reef limestone</b> Pleistocene limestone	Lidz et al., 2006 Lidz et al., 1997a	Same organisms as occur in carbonate sand on Pleistocene limestone but without turtle sea grass
<b>Seagrass-covered sand on rock ledge</b>	Lidz et al., 2006	Mostly <i>Thalassia testudinum</i>
<b>Coralline red algae</b> Shoal fringe (coralline algae, finger coral) Shoal fringe with restricted circulation	Lidz et al., 1997a Marszalek, 1977 Enos, 1977	Red coralline algae <i>Goniolithon</i> and <i>Lithothamnium</i> dominant with finger coral <i>Porites porites</i> and <i>P. divaricata</i> ; turtle sea grass and green algae ( <i>Halimeda opuntia</i> and <i>Avrainvillea nigricans</i> ) subordinate
<b>Sea grasses on lime mud</b> Grass-covered mud Sea grass	Lidz et al., 1997a Enos, 1977 Multer, 1993	<i>Thalassia testudinum</i> dominant where present; scattered loggerhead sponges <i>Spheciospongia vesparia</i> , abundant 'ghost shrimp' <i>Callinassa</i> , burrowing sea cucumbers <i>Holothuria floridana</i> , and sea-biscuit urchins <i>Clypeaster rosaceus</i>
<b>Bare lime mud or seagrass-covered muddy carbonate sand</b> Bare lime mud Bare mud	Lidz et al., 2006 Lidz et al., 1997a Enos, 1977	Few conspicuous organisms
<b>Sea grasses on carbonate sand</b> Sand/grass Grass-covered sand Sea grass Sea grass Continuous sea grass, patchy sea grass	Lidz et al., 1997a Booker, 1997 Enos, 1977 Marszalek, 1977 Multer, 1993 FMRI, 2000	Mixed grasses with <i>Thalassia testudinum</i> and <i>Syringodium filiforme</i> dominant; fragments of <i>Halimeda opuntia</i> and <i>H. trident</i> plates abundant in sand; sea-biscuit urchin <i>Clypeaster rosaceus</i> throughout zone; Queen conch <i>Strombus gigas</i> , Queen helmet conch <i>Cassia madagascariensis</i> , and King conch <i>C. tuberosa</i> mainly in the seaward part; cushion starfish <i>Oreaster reticulatus</i> in landward part
<b>Bare carbonate sand</b> Barren sand or sediment Bare sand Bare bottom (sand or mud)	Lidz et al., 1997a Marszalek, 1977 Enos, 1977 Multer, 1993	Specialized fauna composed primarily of polychaete worms and lesser abundances of burrowing jawfish, razorfish, holothurians, sea urchins, shrimp, bivalve molluscs, crabs, and other small invertebrates inhabit the seemingly barren ecosystem; sand dollars ( <i>Clypeaster subdepressus</i> ) and red-heart sea urchins ( <i>Meoma ventricosa</i> ) plow just beneath the surface
<b>Coral rubble and carbonate sand</b>	Lidz et al., 1997a	Sea grasses and Queen conchs on beds of <i>Lithothamnium</i> -coated <i>Acropora cervicornis</i> and <i>A. palmata</i> ; green and brown algae ( <i>Padina</i> species)
<b>Coral rubble</b> Reef rubble	Lidz et al., 1997a Enos, 1977	Sea grasses and Queen conchs
<b>Senile coral reef</b> Offshore hardbottom, bank reef Outer or dead reef with open circulation Platform-margin reef	Lidz et al., 1997a Marszalek, 1977 Enos, 1977 FMRI, 2000	Loggerhead and vase sponges dominant; scattered large head corals of star coral <i>Montastrea annularis</i> , branching corals <i>Acropora cervicornis</i> , <i>Colpophyllia natans</i> , and <i>Diploria</i> species, and a few colonies of stunted <i>A. palmata</i> ; small corals such as <i>Dichocoenia</i> ; most substrate covered by stinging coral <i>Millepora complanata</i> and <i>M. alvicornis</i> ; algae with holdfasts ( <i>Penicillus</i> and <i>Halimeda</i> species); sea grasses with rhizomes ( <i>Thalassia testudinum</i> , thin-bladed shoal sea grass <i>Halodule wrightii</i> , and cylindrical manatee sea grass <i>Syringodium filiforme</i> ); sea fans ( <i>Gorgonia flabellum</i> ), black spiny sea urchin ( <i>Diadema antillarum</i> ), and red algae ( <i>Lithothamnium</i> species); habitat for numerous fish species
<b>Live coral reef</b> Live coral reef	Lidz et al., 1997a Multer, 1993	Large heads of <i>Montastrea annularis</i> , <i>Diploria labyrinthiformis</i> , or <i>Siderastrea</i> species, and other species of head corals with abundant alcyonarians, gorgonians, and <i>Halimeda</i> species
<b>Sand halo around patch reef</b> Patch reef Patch reef	Lidz et al., 1997a Marszalek, 1977 Enos, 1977; FMRI, 2000	Amphipods, and presumably the same organisms as occur in bare carbonate sand
<b>Manmade treasure-salvor sand holes</b>	Lidz et al., 2006	Unknown, but presumably the same organisms as occur in bare carbonate sand
<b>Bare Pleistocene oolitic limestone</b> <b>Carbonate sand on Pleistocene oolitic limestone</b>	Lidz et al., 2006 Lidz et al., 2006	Both habitats occur in the lower Keys and on the Marquesas-Quicksands ridge, where <i>Halimeda opuntia</i> , <i>H. incrassata</i> , and <i>Thalassia testudinum</i> are the primary organisms on the sands
<b>Outlier reef</b> (on sand-covered upper-slope terrace)	Lidz et al., 2006	Offshore hardbottom consists of dominant loggerhead and vase sponges, gorgonians, scattered head corals of all kinds, and scattered staghorn corals; seaward of outlier reefs are sands with algal nodules made of alternating layers of coralline algae and encrusting foraminifera